

ABSTRACT OF THE DISCLOSURE

A and collects provides various types of information therefrom, including E911 location information, Hand Off (HO) information, and Power information, as well as other Measurements and System Parameters. This information is analyzed by a Data Collection and Filtering system and the results of this analysis are provided to a Network Control system to dynamically control the operation of the wireless network. The various optimizations that can be achieved include: (1) dynamically allocating radio frequency (RF) signal power in the wireless network, (2) setting dynamic dedicated handoff (HO) thresholds for individual mobile transceivers; and (3) intelligently forming or steering radio frequency (RF) signal beams. Moreover, the collected and analyzed information can be used to identify and resolve problems in the wireless network, especially when the identified problems are correlating with E911 location information.

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